#6

SEQUENCE LISTING

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      Michael Jarpe
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<120> METHODS FOR TREATING NEUROLOGICAL
      INJURIES AND DISORDERS

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<140> 09/756,481
<141> 2001-01-08

<150> PCT/US99/15106
<151> 1999-07-02

<150> 60/091,791
<151> 1998-07-06

<160> 2

<170> FastSEQ for Windows Version 3.0

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ccaggacctc aaagcacccc cgacctaagg tcaccagccc actggcccca gacgcagtgg   180
gctccgctga ctctcttgga cacctcctgg gaggaaa atg ctc cct gtc tgc cat   235
                                          Met Leu Pro Val Cys His
                                          1   5

cgt ttt tgc gac cac ctc ctc ctc ctg ctc ttg ctg ccc tcg acg acc   283
Arg Phe Cys Asp His Leu Leu Leu Leu Leu Leu Leu Pro Ser Thr Thr
            10   15   20

ctg gcc ccc gcg cca gca tcc atg ggc ccc gct gcc gcc ctg ctc cag   331
Leu Ala Pro Ala Pro Ala Ser Met Gly Pro Ala Ala Ala Leu Leu Gln
        25   30   35

gtt ctt ggg ctt ccc gaa gcg ccc cgg agc gtc ccc aca cac cga cct   379
Val Leu Gly Leu Pro Glu Ala Pro Arg Ser Val Pro Thr His Arg Pro
    40   45   50

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gtg cct cct gtc atg tgg cgc cta ttc cgt cgc cgt gac ccc cag gag        427
Val Pro Pro Val Met Trp Arg Leu Phe Arg Arg Arg Asp Pro Gln Glu
55              60              65              70

gcc aga gtg gga cgc cct ctg cgg cca tgc cac gtg gag gaa cta ggg        475
Ala Arg Val Gly Arg Pro Leu Arg Pro Cys His Val Glu Glu Leu Gly
            75              80              85

gtc gcc gga aac att gtg cgc cac atc ccc gac agc ggt ctg tcc tcc        523
Val Ala Gly Asn Ile Val Arg His Ile Pro Asp Ser Gly Leu Ser Ser
            90              95              100

agg ccc gca caa ccc gcc agg acc tcg ggg ctg tgc ccc gag tgg aca        571
Arg Pro Ala Gln Pro Ala Arg Thr Ser Gly Leu Cys Pro Glu Trp Thr
            105             110             115

gtc gtc ttt gac ctg tcg aat gtg gag ccc aca gag cgc cca aca cgc        619
Val Val Phe Asp Leu Ser Asn Val Glu Pro Thr Glu Arg Pro Thr Arg
            120             125             130

gcg cgc tta gag ttg cgg ctg gag gct gag tgt gaa gat aca gga ggg        667
Ala Arg Leu Glu Leu Arg Leu Glu Ala Glu Cys Glu Asp Thr Gly Gly
135             140             145             150

tgg gag cta agc gtg gca ctg tgg gcc gac gca gag cat cca ggg cct        715
Trp Glu Leu Ser Val Ala Leu Trp Ala Asp Ala Glu His Pro Gly Pro
            155             160             165

gag ctg ctg cgc gtg ccg gcg cca cca ggg gtg ctc ctg cgc gca gac        763
Glu Leu Leu Arg Val Pro Ala Pro Pro Gly Val Leu Leu Arg Ala Asp
            170             175             180

cta ctg ggg act gca gta gcc gcc aac gca tca gtg ccc tgt act gtg        811
Leu Leu Gly Thr Ala Val Ala Ala Asn Ala Ser Val Pro Cys Thr Val
            185             190             195

cgc ctg gcg ctg tca ctg cac cct ggg gcc act gca gcc tgt ggg cgc        859
Arg Leu Ala Leu Ser Leu His Pro Gly Ala Thr Ala Ala Cys Gly Arg
            200             205             210

ctg gct gag gcc tcc ctg ctg ctg gtg acg ctg gac cca cgc ctg tgt        907
Leu Ala Glu Ala Ser Leu Leu Leu Val Thr Leu Asp Pro Arg Leu Cys
215             220             225             230

ccc ttg ccg cga ttg cgg cgc cac acg gag ccc agg gta gaa gtt ggt        955
Pro Leu Pro Arg Leu Arg Arg His Thr Glu Pro Arg Val Glu Val Gly
            235             240             245

cca gtg ggc act tgt cgt acc cga cgg ttg cat gtg agc ttc cgt gag       1003
Pro Val Gly Thr Cys Arg Thr Arg Arg Leu His Val Ser Phe Arg Glu
            250             255             260
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gtg ggc tgg cac cgt tgg gtg atc gcg ccg cgt ggc ttc cta gcc aac      1051
Val Gly Trp His Arg Trp Val Ile Ala Pro Arg Gly Phe Leu Ala Asn
        265                 270                 275

ttc tgc cag ggc acg tgc gca cta ccc gaa acg ctg agg gga ccc ggc      1099
Phe Cys Gln Gly Thr Cys Ala Leu Pro Glu Thr Leu Arg Gly Pro Gly
        280                 285                 290

ggg ccg cct gca ctc aac cac gct gtg ctg cgc gcg ctc atg cac gca      1147
Gly Pro Pro Ala Leu Asn His Ala Val Leu Arg Ala Leu Met His Ala
295                 300                 305                 310

gct gct ccc acc ccg ggt gca ggc tcg ccc tgc tgc gtg cca gag cgt      1195
Ala Ala Pro Thr Pro Gly Ala Gly Ser Pro Cys Cys Val Pro Glu Arg
                315                 320                 325

cta tca ccc atc tcc gtg ctc ttc ttc gac aat agt gac aac gtg gtc      1243
Leu Ser Pro Ile Ser Val Leu Phe Phe Asp Asn Ser Asp Asn Val Val
                330                 335                 340

ctg cga cac tac gaa gac atg gtg gtg gat gag tgt ggc tgc cgt          1288
Leu Arg His Tyr Glu Asp Met Val Val Asp Glu Cys Gly Cys Arg
        345                 350                 355

tgaccacccg ggacaccctt tcagggaccg ccccacgcaa aagcagggac tgtttgttca    1348
tgttttattg gtgacaaaaa gcttaaaaca aatttgact                          1387


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        20                  25                  30
Ala Ala Ala Leu Leu Gln Val Leu Gly Leu Pro Glu Ala Pro Arg Ser
        35                  40                  45
Val Pro Thr His Arg Pro Val Pro Pro Val Met Trp Arg Leu Phe Arg
    50                  55                  60
Arg Arg Asp Pro Gln Glu Ala Arg Val Gly Arg Pro Leu Arg Pro Cys
65                  70                  75                  80
His Val Glu Glu Leu Gly Val Ala Gly Asn Ile Val Arg His Ile Pro
                85                  90                  95
Asp Ser Gly Leu Ser Ser Arg Pro Ala Gln Pro Ala Arg Thr Ser Gly
            100                 105                 110
Leu Cys Pro Glu Trp Thr Val Val Phe Asp Leu Ser Asn Val Glu Pro
        115                 120                 125
Thr Glu Arg Pro Thr Arg Ala Arg Leu Glu Leu Arg Leu Glu Ala Glu
    130                 135                 140
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Cys Glu Asp Thr Gly Gly Trp Glu Leu Ser Val Ala Leu Trp Ala Asp
145             150             155                 160
Ala Glu His Pro Gly Pro Glu Leu Leu Arg Val Pro Ala Pro Pro Gly
            165             170                 175
Val Leu Leu Arg Ala Asp Leu Leu Gly Thr Ala Val Ala Ala Asn Ala
            180             185                 190
Ser Val Pro Cys Thr Val Arg Leu Ala Leu Ser Leu His Pro Gly Ala
        195             200             205
Thr Ala Ala Cys Gly Arg Leu Ala Glu Ala Ser Leu Leu Leu Val Thr
    210             215             220
Leu Asp Pro Arg Leu Cys Pro Leu Pro Arg Leu Arg Arg His Thr Glu
225             230             235                 240
Pro Arg Val Glu Val Gly Pro Val Gly Thr Cys Arg Thr Arg Arg Leu
            245             250             255
His Val Ser Phe Arg Glu Val Gly Trp His Arg Trp Val Ile Ala Pro
            260             265             270
Arg Gly Phe Leu Ala Asn Phe Cys Gln Gly Thr Cys Ala Leu Pro Glu
        275             280             285
Thr Leu Arg Gly Pro Gly Gly Pro Pro Ala Leu Asn His Ala Val Leu
    290             295             300
Arg Ala Leu Met His Ala Ala Ala Pro Thr Pro Gly Ala Gly Ser Pro
305             310             315                 320
Cys Cys Val Pro Glu Arg Leu Ser Pro Ile Ser Val Leu Phe Phe Asp
            325             330             335
Asn Ser Asp Asn Val Val Leu Arg His Tyr Glu Asp Met Val Val Asp
            340             345             350
Glu Cys Gly Cys Arg
            355
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